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Intellectual Property Law

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Page 1 of 1

Docket No.: ASMEX.448A

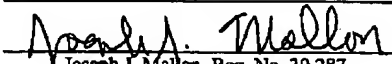
CUSTOMER NO. 20995

Applicant : Brabant et al.
 App. No. : 10/800,390
 Filed : March 12, 2004
 For : EPITAXIAL SEMICONDUCTOR
 DEPOSITION METHODS AND
 STRUCTURES
 Examiner : David Vu
 Group Art Unit : 2818

CERTIFICATE OF FAX TRANSMISSION

I hereby certify that this correspondence and all marked attachments are being transmitted via facsimile to the USPTO Central Fax No. (703) 872-9306 on the date shown below:

June 28, 2005


 Joseph J. Mallon, Reg. No. 39,287

Transmitted herewith for filing and consideration in the above-referenced application are the following items:

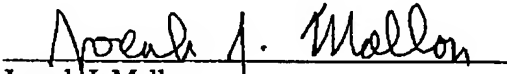
(X) Response to Restriction Requirement in 2 pages.

FILING FEES:

FEE CALCULATION				
FEE TYPE		FEE CODE	CALCULATION	TOTAL
Total Claims minus 20; or Previously Paid	30 - 50 = 0	1202 (\$50)	0 x 50 =	\$0
Independent minus 3; or Previously Paid	2 - 4 = 0	1201 (\$200)	0 x 200 =	\$0
			TOTAL FEE DUE	\$0

(X) Total pages in transmission: 3

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.


 Joseph J. Mallon
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1792616:062805

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ASMEX.448A

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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June 28, 2005

(Date)

Joseph J. Mallon
Joseph J. Mallon, Reg. No. 39,287

RESPONSE TO RESTRICTION REQUIREMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicants have received the Office Action of June 9, 2004. Claims 1-36 and 64-77 are currently pending in this application.

The Office requires election of one of the following species:

- Species I: Claims 1-30, directed toward a method for depositing an epitaxial Ge-containing layer, comprising contracting the single crystal Si structure with a surface active compound during at least a portion of the cooling time period.
- Species II: Claims 31-36, directed toward a method for forming a strained semiconductor layer over a substrate, comprising: depositing a relaxed epitaxial SiGe alloy layer onto the relaxed epitaxial Ge layer, the relaxed SiGe alloy layer having an increasing Si content with distance from an interface with the relaxed epitaxial Ge layer.
- Species III: Claims 64-73, directed toward a method for depositing an epitaxial Ge layer, comprising contracting the single crystal semiconductor surface with a surface active compound selected from the group consisting of Si precursors and Ge precursors during at least a portion of the cooling time period.
- Species IV: Claims 74-77, directed toward a method for depositing an epitaxial Ge layer, comprising cooling the single crystal Si substrate to a second temperature of about

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Filed : March 12, 2004

450°C or less during a cooling time period, the reactor having a reactor pressure in the range of about 1 Torr to about 100 Torr during cooling time period.

In response, Applicants hereby elect Species I, Claims 1-30, without traverse, for further prosecution on the merits.

Applicants reserve the right to file divisional and/or continuation applications containing claims directed to all or part of the subject matter described in the instant application, including the subject matter of any claims amended, withdrawn, or canceled at any time during the prosecution of this application, and thus unclaimed subject matter is not dedicated to the public.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: June 28, 2005

By: Joseph J. Mallon
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